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MISSOURI CLEAN WATER COMMISSION  
THE DEPARTMENT OF PUBLIC HEALTH AND WELFARE  
ROOM 102 STATE CAPITOL BUILDING, P. O. BOX 154  
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EXECUTIVE SECRETARY

Jack K. Smith

10.302 Greene  
Villa Park Heights

October 27, 1972

Park Crest Development Co.  
3952 Fairview  
Springfield, Missouri  
Gentlemen:

Plans and specifications submitted by Bane & Rosenbaum, Inc., for wastewater works to serve Villa Park Heights Subdivision, Greene County, have been reviewed and approved by the Clean Water Commission, as evidenced by Construction Permit Number 23-158 which is attached to this letter. This permit authorizes construction of the facilities described on the permit, and is issued in accordance with regulations of the Clean Water Commission. Approval of the Clean Water Commission must be obtained prior to making any changes in the plans and specifications for the work described in the permit. This permit will be revoked one year from the date of issuance unless justification is presented for extension.

RECOMMENDATIONS: See attached Division of Health Form E2.10.

COMMENTS: NONE

Following completion of these wastewater works, the enclosed application for an operating permit shall be completed and returned to the Clean Water Commission. A final inspection will then be made and if the completed works are found to be in accordance with plans and specifications, a permit to operate will be issued by this office.

*Jack K. Smith*  
Jack K. Smith  
Executive Secretary

Missouri Clean Water Commission

JKS/CSD/cg

C.C. Bane & Rosenbaum, Inc.  
Greene County Planning & Zoning  
County Health Department

Paul Hickman, Supt. of San. Serv. ✓  
Division of Health, District 5  
Central Office

DEPARTMENT OF PUBLIC HEALTH AND WELFARE

MISSOURI CLEAN WATER COMMISSION

**CONSTRUCTION PERMIT**

The Missouri Clean Water Commission hereby issues a permit to:

Park Crest Development Company  
3952 Fairview, Springfield, Missouri

for the construction of (described facilities):

4,321 lineal feet of 8-inch V.C.P. and  
690 lineal feet of 10-inch V.C.P. complete with all of the necessary appur-  
tenances to make this a complete and usable sewer to serve Villa Park Heights  
Subdivision (Lines A, B, C, First Stage) located in SE $\frac{1}{4}$ , Sec. 3, T29, R23,  
Greene County, Missouri. This sewer line will discharge into a lift station  
and treatment facility to be constructed.

Permit Conditions:

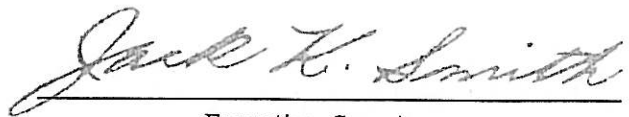
The sewers described in this permit are not to be placed in  
operation until an operating permit or letter of approval is issued for the  
lift station and waste treatment facilities.

Construction of such proposed facilities shall be in accordance with the provisions of the  
Missouri Clean Water Law (Senate Bill 424) Chapter 204 RSMo, Supplement 1972 and regu-  
lations promulgated thereunder, or this permit may be revoked by the Missouri Clean Water  
Commission.

As the Missouri Clean Water Commission does not examine structural features of design or  
the efficiency of mechanical equipment, the issuance of this permit does not include ap-  
proval of these features.

A representative of the Commission will inspect the work covered by this permit periodically  
during construction. Issuance of an operating permit by the Commission will be contingent  
on the work substantially adhering to the approved plans and specifications.

October 27, 1972  
Date

  
Executive Secretary

**DESIGN STANDARDS FOR LOCATION OF WATER MAINS  
WITH RESPECT TO SEWERS****HORIZONTAL SEPARATION**

Whenever possible, a water main shall be laid at least 10 feet, horizontally, from any sanitary sewer, storm sewer, or manhole. When local conditions prevent a lateral separation of 10 feet, a water main may be laid closer than 10 feet to a sanitary or storm sewer, provided that the water main is laid in a separate trench, or on an undisturbed earth shelf located on one side of the sewer at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, both the water main and sewer must be constructed of mechanical slip-on, or lead joint cast-iron pipe, or prestressed concrete cylinder pipe, and should be pressure-tested to assure water-tightness before backfilling.

**VERTICAL SEPARATION**

Whenever water mains must cross sanitary sewers, house sewers, or storm drains, the water main shall be laid at such an elevation that the bottom of the water main is 18 inches above the top of the drain or sewer. A full length of water main pipe shall be centered over the sewer line to be crossed so that the joints will be equally distant from the sewer and as remote therefrom as possible. This vertical separation shall be maintained for that portion of the water main located within 10 feet, horizontally, of any sewer or drain it crosses.

**UNUSUAL CONDITIONS**

Where conditions prevent the minimum vertical separation set forth above from being maintained, or when it is necessary for the water main to pass under a sewer or drain, the water main shall be laid with slip-on, leaded, or mechanical joint cast-iron pipe, or prestressed concrete cylinder pipe, and the water main shall extend on each side of the crossing to a distance from the sewer of at least 10 feet. In making such a crossing, a full length of water main pipe must be centered over or under the sewer to be crossed, so that the joints will be equi-distant from the sewer and as remote therefrom as possible. The sewer line must also be constructed of cast iron pipe with slip-on, leaded, or mechanical joints until the normal distance from the sewer line to the water main is at least 10 feet. Where a water main must cross under a sewer, a vertical separation of 18 inches between the bottom of the sewer and the top of the water main shall be maintained, with adequate support, especially for the larger sized sewer lines to prevent them from settling on and breaking the water main. The sewer shall be constructed of cast-iron pipe for a distance of 10 feet on either side of the crossing, or other suitable protection as approved by the Division of Health shall be provided. Where these conditions cannot be met, the Division of Health shall be consulted as to the precautions to be taken to protect the public water supply.

**SEWER MANHOLES**

No water pipe shall pass through, or come into contact with, any part of a sewer or a sewer manhole.

MISSOURI WATER POLLUTION BOARD  
1150 EAST LATOKA STREET  
SPRINGFIELD, MISSOURI 65804

10.302 Greene County  
Villa Park Heights

April 19, 1972

Mr. Thomas B. Smith, President  
Park Crest Development Company  
3952 Fairview  
Springfield, Missouri 65804

Dear Mr. Smith:

Please find enclosed a copy of the State Geologist report for a proposed lagoon facility to serve Villa Park Heights Subdivision located in SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , Sec. 3, T29, R23, Greene County, Missouri.

Please note that the geologist has rejected the proposed site unless remedial work is performed. The report indicates that the lagoons must be artificially sealed and test borings completed on the tract to ensure there are not sink holes. Boring logs must be submitted to the Missouri Geological Survey for their review and approval.

The report also indicated that the receiving stream is "losing". Missouri effluent guidelines do not permit waste discharges to losing streams. A copy of the guidelines is enclosed under separate cover.

You are also advised that the Missouri Clean Water Law requires that you submit engineering plans and specifications for waste treatment facilities and sewer lines to the Clean Water Commission (formerly Water Pollution Board) before beginning construction.

If you have any questions, please advise.

Yours truly,

Charles S. Decker, E.I.T.  
Regional Engineer  
Springfield Regional Office

CSD:cd

CC: Greene County Public Health  
District 5, Division of Health  
Paul T. Hickman ✓  
Central Office

MISSOURI WATER POLLUTION BOARD  
1150 EAST LATOKA STREET  
SPRINGFIELD, MISSOURI 65804

10.302 Greene County  
Villa Park Heights

April 17, 1972

Mr. Thomas B. Smith, President  
Park Crest Development Company  
3952 Fairview Avenue  
Springfield, Missouri 65804

Dear Mr. Smith:

It has recently come to our attention that you are planning to develop a subdivision in Greene County to be known as Villa Park Heights. The Springfield Leader Press reports that the subdivision will have approximately 656 homes.

During the latter part of March 1972 you contacted the Missouri Clean Water Commission (formerly Missouri Water Pollution Board) and accompanied staff personnel on a tour of the proposed subdivision. We understood at that time that the subdivision would consist of approximately 220 homes. Waste water works to serve the area could include sewage collection lines, lift stations, and a lagoon to be constructed in SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , Sec. 3, T29, R23, Greene County, Missouri. You indicated that you would be constructing a no discharge lagoon facility.

Upon conclusion of the tour you were advised that the Missouri Water Pollution Law requires that any individual desiring to discharge sewage effluents to waters of the state must first obtain a construction permit from the Clean Water Commission. Engineering plans and specifications for sewer lines, lift stations, force mains, and treatment facilities must be submitted to the Clean Water Commission for review before a construction permit can be issued.

If a lagoon system is proposed the state geologist must approve the site geologically before the Clean Water Commission will issue the required permit. Recent conversations by this office with the Missouri Geological Survey indicates that they have inspected the site but have not granted final approval.

Please find mailed under separate cover copies of the Missouri Clean Water Law and Suggested Procedures for Compliance with the Clean Water Law. If you have any questions, please advise.

Yours truly,

Charles S. Decker, E.I.T.  
Regional Engineer  
Springfield Regional Office

CSD:cd

CC: Paul T. Hickman, Supt. of Sanitary Services  
Greene County Health Dept.  
District 5, Division of Health

Greene County Planning and Zoning  
Commission  
Central Office